

**Defense Information Infrastructure (DII)**  
**Common Operating Environment (COE)**  
**Software Version Description (SVD)**  
for the  
**METOC Observations Database (MDMETC) Segment**  
**Release 1.1.0.0**

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**Prepared for:**  
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## Table of Contents

<b>1</b>	<b>SCOPE.....</b>	<b>1</b>
<b>1.1</b>	<b>Identification.....</b>	<b>1</b>
<b>1.2</b>	<b>System Overview .....</b>	<b>1</b>
<b>1.3</b>	<b>Product Information .....</b>	<b>1</b>
1.3.1	Product Qualification .....	1
1.3.2	Product Restrictions .....	2
1.3.3	Product Dependencies .....	2
<b>2</b>	<b>REFERENCED DOCUMENTS .....</b>	<b>3</b>
<b>2.1</b>	<b>Government Documents .....</b>	<b>3</b>
<b>2.2</b>	<b>Non-Government Documents.....</b>	<b>3</b>
<b>3</b>	<b>VERSION DESCRIPTION .....</b>	<b>4</b>
<b>3.1</b>	<b>Inventory of Materials Released .....</b>	<b>4</b>
<b>3.2</b>	<b>Inventory of Software Contents .....</b>	<b>4</b>
<b>3.3</b>	<b>Changes Installed .....</b>	<b>4</b>
<b>3.4</b>	<b>Waivers.....</b>	<b>4</b>
<b>3.5</b>	<b>Adaptation Data .....</b>	<b>4</b>
<b>3.6</b>	<b>Installation Instructions.....</b>	<b>4</b>
<b>3.7</b>	<b>Possible Problems and Known Errors .....</b>	<b>5</b>
<b>4</b>	<b>NOTES .....</b>	<b>6</b>

**4.1      Glossary of Acronyms.....6**

**APPENDIX A     List of Executables and Environment Files .....A-1**

**A.1    File Structure for HP-UX 10.20 Delivery.....A-1**

# **1 SCOPE**

## **1.1 Identification**

This Software Version Description (SVD) describes the METOC Observations Database (MDMETC) Segment of the METCAST data distribution software, Release 1.1.0.0, developed by Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1 or higher. The software runs under the following hardware and operating systems:

- Sun Enterprise 250 or higher computer running the Sun Solaris operating system, release 2.5.1 or higher.
- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210), or HP K570 or higher running the HP-UX operating system, release 10.20 or higher.

This release provides the DII COE segment for HP-UX 10.20 only. The DII COE release for Sun Solaris will be provided at a later date. This document deals only with the DII COE HP-UX segment.

This document has been developed in accordance with the *DII COE Developer Documentation Requirements, Version 2.0*.

## **1.2 System Overview**

METCAST is a standards-based, request-reply and subscription (channel) system for distributing weather information over the Internet using Hyper-Text Transfer Protocol (HTTP) and Multipurpose Internet Mail Extensions (MIME). The METCAST Server Segment is responsible for processing requests for data from METCAST Clients, interfacing with a database to attempt to satisfy each request, and formatting the retrieved data as specified in the request before returning the data to the client. The METCAST Client comprises a separate segment. The MDMETC segment provides the observations database for METCAST Server.

## **1.3 Product Information**

### **1.3.1 Product Qualification**

Test and Evaluation (T&E) of the software were performed at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA, prior to delivery of the software.

### **1.3.2 Product Restrictions**

Intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

### **1.3.3 Product Dependencies**

MDMETC requires installation of Informix on the server. See the Installation Procedures for details.

The full METCAST Server installation requires three segments: MDCHNL (the METOC Channels segment), MDMETC (the observation database segment) and MCSRVR (METCAST Server itself). **These segments must be installed in the following order:**

1. MDCHNL
2. MDMETC (**NOTE:** This segment requires a later version of the Informix On-Line Dynamic Server (INFXOL) segment than do MDCHNL and MCSRVR. If INFXOL **1.0.2.0**/Informix On-Line Dynamic Server **7.30** is not present on the system, this segment should not be installed. MCSRVR can still be installed, but will not have access to observations.)
3. MCSRVR (must be installed last, but requires MDMETC only if observations are to be processed).

## **2 REFERENCED DOCUMENTS**

### **2.1 Government Documents**

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0</i> , Defense Information Systems Agency, Joint Operability and Engineering Organization
Unnumbered 15 June 1998	<i>Software Requirements Specification for METCAST</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), San Diego, CA
fnmoc_MCSRVR_IP_31Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Server (MCSRVR) Segment, Release 3.1</i>
fnmoc_MDCHNL_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Channels (MDCHNL) Segment, Release 1.1</i>
fnmoc_MDMETC_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METOC Observations Database (MDMETC) Segment, Release 1.1</i>
fnmoc_MDCHNL_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METOC Channels (MDCHNL) Segment, Release 1.1.0.0</i>
fnmoc_METCAST_IP_11Series 23 April 1999	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_UM_1100 23 April 1999	<i>User Manual (UM) for the METCAST Client Segment, release 1.1</i>
fnmoc_METCAST_SVD_1100 23 April 1999	<i>Software Version Description (SVD) for the METCAST Client Segment, Release 1.1.0.0</i>

### **2.2 Non-Government Documents**

None.

## **3 VERSION DESCRIPTION**

### **3.1 Inventory of Materials Released**

All physical media and associated documentation for the METOC Observations Database Segment are listed below.

- METOC Observations Database Segment v1.1.0.0 Installation tape (4mm DAT tape) for HP TAC-3/TAC-4/K570 computer running DII COE 3.1 or higher and the HP-UX 10.20 operating system.
- METOC Observations Database Segment v1.1 Series Installation Procedures (IP), dated 23 April 1999
- METOC Observations Database Segment v1.1.0.0 Software Version Description (SVD), dated 23 April 1999

### **3.2 Inventory of Software Contents**

A listing of all executables and environment files delivered is contained in Appendix A of this document.

### **3.3 Changes Installed**

There are no SCRs for MDMETC v1.1; the only changes installed have been evolutionary bug fixes.

### **3.4 Waivers**

There are no waivers associated with this software.

### **3.5 Adaptation Data**

There are no site-specific data for the METOC Observations Database segment.

### **3.6 Installation Instructions**

The METOC Observations Database Segment v1.1 Series Installation Procedures (IP) referenced in Section 2 of this document provide comprehensive installation instructions for the METOC Channels Segment. The fully installed segment occupies approximately 200 MB of disk space.

The software requires a minimum of 8 MB of RAM, with 16 MB recommended (above the operating system requirements).

### **3.7 Possible Problems and Known Errors**

There are no known problems and errors with METOC Observations Database software.

## **4 NOTES**

### **4.1 Glossary of Acronyms**

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
IP	Installation Procedure
IP	Internet Protocol
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

## APPENDIX A List of Executables and Environment Files

### A.1 File Structure for HP-UX 10.20 Delivery

```
/h/MDMETC
total 236
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 .
drwxrwxrwx 13 COE COE 1024 Apr 23 18:35 ..
drwxrwxrwx 2 sysadmin users 1024 Feb 18 17:47 Scripts
drwxrwxrwx 2 sysadmin users 1024 Apr 14 20:03 SegDescrip
drwxrwxrwx 2 sysadmin users 1024 Feb 22 13:55 bin
drwxrwxrwx 2 sysadmin users 1024 Feb 18 16:32 data
drwxrwxrwx 2 sysadmin users 1024 Feb 19 16:55 install
drwxrwxr-x 2 sysadmin other 24 Feb 22 12:56 src

/h/MDMETC/Scripts:
total 10
drwxrwxrwx 2 sysadmin users 1024 Feb 18 17:47 .
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 ..
-r-xr-xr-x 1 sysadmin other 1231 Feb 18 17:46 .cshrc
-r-xr-xr-x 1 sysadmin other 86 Feb 18 17:44 .cshrc.MDMETC

/h/MDMETC/SegDescrip:
total 24
drwxrwxrwx 2 sysadmin users 1024 Apr 14 20:03 .
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 ..
-rwrxr-xr-x 1 sysadmin users 771 Feb 18 19:55 DEINSTALL
-rw-rw-r-- 1 sysadmin other 666 Mar 19 23:24 FileAttrs
-rwrxr-xr-x 1 sysadmin users 2272 Feb 19 18:37 PostInstall
-rw-r--- 1 sysadmin users 358 Mar 26 18:31 ReleaseNotes
-rw-rw-rw- 1 sysadmin other 288 Mar 26 17:55 SegInfo
-rw-r--- 1 sysadmin users 299 Feb 18 17:30 SegName
-rw-r--- 1 sysadmin users 27 Mar 26 17:47 VERSION
-rw-rw-rw- 1 sysadmin other 125 Mar 26 18:32 Validated

/h/MDMETC/bin:
total 18
drwxrwxrwx 2 sysadmin users 1024 Feb 22 13:55 .
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 ..
-r-xr-xr-x 1 sysadmin other 2694 Feb 22 13:59 MDMETCCreateBlob
-r-xr-xr-- 1 sysadmin other 1437 Feb 18 19:32 MDMETCDropBlob
-r-xr-xr-- 1 sysadmin other 1332 Feb 18 20:25 MDMETCGetDBSize

/h/MDMETC/data:
total 2540
drwxrwxrwx 2 sysadmin users 1024 Feb 18 16:32 .
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 ..
-rw-rw-r-- 1 sysadmin other 3766 Feb 18 16:31 CountryCode.unl
-rw-rw-r-- 1 sysadmin other 189903 Feb 18 16:31 airports.unl
-rw-rw-r-- 1 sysadmin other 1076789 Feb 18 16:31 mslib.unl

/h/MDMETC/install:
total 152
drwxrwxrwx 2 sysadmin users 1024 Feb 19 16:55 .
drwxrwxrwx 8 sysadmin users 1024 Apr 23 17:41 ..
```

**fnmoc\_MDMETC\_SVD\_1100**

---

```
-rwxrwxrwx 1 sysadmin other      35216 Mar 24 23:50 LLT-tables.sql
-rwxrwxrwx 1 sysadmin other      8642 Mar 24 23:50 StaticTables.sql
-rwxrwxrwx 1 sysadmin other     19375 Mar 24 23:51 StoredProc.sql
-rwxrwxrwx 1 sysadmin other      343 Feb 22 18:19 install_mdmetc
-rwxrwxrwx 1 sysadmin other     2394 Feb 25 17:35 makeDB
-rwxrwxrwx 1 sysadmin other     2667 Feb 25 17:39 mdmetc_cds_scripts
-rwxrwxrwx 1 sysadmin other      24 Feb 18 19:57 mdmetc_create_blob_inf
-rwxrwxrwx 1 sysadmin other      19 Feb 22 20:26 mdmetc_create_file_inf
-rw-r--r-- 1 sysadmin other      11 Feb 19 12:21 mdmetc_drop_file_inf
-rwxrwxrwx 1 sysadmin other      544 Feb 19 12:20 uninstall_mdmetc

/h/MDMETC/src:
total 4
drwxrwxr-x 2 sysadmin other      24 Feb 22 12:56 .
drwxrwxrwx 8 sysadmin users    1024 Apr 23 17:41 ..
```